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6, 2002, 22:09:46 ; Search time 230 Seconds
   (without alignments)
14931.728 Million cell updates/sec
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5.1.3
Compugen Ltd.
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GenCore version
Copyright (c) 1993 - 2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Maximum Match 100%
Listing first 45 summaries
                                                                        OM nucleic - nucleic search, using sw model
                                                                                                                                                                                                                                                                 IDENTITY_NUC Gapop 10.0 , Gapext 1.0
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Maximum DB seq length: 200000000
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                                                                                                                                                                                        US-10-025-514-7
1525
                                                                                                                December
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                                                                                                            Run on:
                                                                                                                                                                                        Title:
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1: /SIDS2/gcgdata/geneseq/geneseqn-embl/NA1980.DAT:*
2: /SIDS2/gcgdata/geneseq/geneseqn-embl/NA1981.DAT:*
3: /SIDS2/gcgdata/geneseq/geneseqn-embl/NA1981.DAT:*
4: /SIDS2/gcgdata/geneseq/geneseqn-embl/NA1983.DAT:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Description	DNA sequence encod DNA codonoroptimised Codon-optimised RA
SUMMARIES	ABK88023 ABK88024 ABK88024 ABK88025 ABK88025 ABK88026 ABK88015 AAV4130 AAV4130
DB	24 4 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
% Query Match Length DB	1525 1756 1582 1582 1582 1756 1182 1182 1182
% Query Match	100.0 78.4 78.3 78.1 78.1 78.1 77.5 41.3
Score	1525 1196 1194.8 1191.6 1191.4 1191.4 1191.4 1193.4
Result No.	

Nucleotide sequenc Human alphal-antit	cDNA encoding nove	Human alpha-1 ant1	Thyroid cancer rel	Human cDNA differe	Thyroid cancer rel	Sequence encoding	Sequence encoding	Human alphal-anti-	Nucleotide sequenc			Nucleotide sequenc	Nucleotide sequenc	. Nucleotide sequenc				Nucleotide sequenc	Human alpha-1-anti	Native coding sequ	Sequence of alpha-	Sequence of alpha-	Alpha-1-antitrypsi	Alpha-1 antitrypsi	Entire sequence of	Human alpha 1-anti	Sequence encoding			Osteoarthritis tis	Sequence of fusion	Tu.	Recombinant squirr	Alpha-1-antitrypsi
AAV28471 AAZ90199	AAS45052	AAQ31403	ABL67511	ABK84495	ABL67510	AAN91077	AAN40078	AAX83548	AAZ45928	AAZ45932	AAZ45933	AA245925	AAZ45930	AA245934	AAZ45935	AAZ45931	AAZ45927	AAZ45926	AAT72858	AAV41726	AAN90341	AAN97127	AAQ21125	AAQ23746	AAQ03184	AAN60417	AAN50425	AAN50540	AAN50021	AAH23089	ABL59152	AAT79493	AAT78180	AAN91078
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1312	1367	1352	1352	1371	1371	.1433	1434	1434	5932	6142	6142	6565	6714	6924	6924	6981	7054	7405	1352	1185	1434	1312	1189	1378	1396	1185	1423	1299	1378	1390	2013	1242	1242	1312
28.6 28.6	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.3	28.2	28.2	æ	ω.	8	8	28.0	æ	27.9	^	27.0	ø		m	3
436.4	m	ω.	m.	e,	e.	ω.	æ.	433.2	œ.	433.2	433.2				433.2		•	32	31	430.4	7		\sim	•	428.4	•		425.2			401.4			
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ALIGNMENTS

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Yeast; alpha factor; gene; ds; Alzheimer's disease; SLAPI; malaria; emphysema; asthma; chronic obstructive pulmonary disease; cystic fibrosis; ottis media; ottiss external; HIV; psorlasis; eczema; human immunodeficiency virus; atopic dermatitis; muscular dystrophy; herpes; ulceration; sepsis; rheumatoid arthritis; periodontal disease; tumour metastasis; tumour anglogenesis; osteoporosis; paget's disease; glomerulonephritis; scleroderma; hypertension.
                                                                                                                                                                                                                                                                                                   /standard_name= "Ribosome binding site"
                                                                                                                                                                                                                                                                                                                                        'product- "SLAP1 fusion protein"
                                                                                                                                                                                                                                                                                                                                                                    /*tag= c
/note= "SLPI coding region"
                                                                                         DNA sequence encoding SLAP1 fusion protein.
                                                                                                                                                                                                                                                              Location/Qualifiers
               BP
            ABK88022 standard; DNA; 1525
                                                                (first entry)
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                                                                07-0CT-2002
                                      ABK88022;
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ABK88022
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us-10-025-514-7.rng

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procease inhibitor comprising an alphal-antitrypsin or its functionally active portion and a second protease inhibitor or its functionally active protein. The fusion proteins of the invention may act as an inhibitor of protease activity. The fusion protein of the invention is useful for inhibiting protease activity associated with a disorder such as emphysema, asthma, chronic obstructive pulmonary disease, cystic fibrosis, otitis media, otitis external or HIV infection, or for treating an individual suffering from or at risk for a disease or disorder involving unwanted protease activity. The proteins are useful for treating dematological diseases such as atopic dematchis, eczema of the interior and individual accessed activity. The proteins are useful for treating dematchological diseases such as atopic dematchis, eczema
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Novel fusion protein useful for inhibiting protease activity associated with a disorder such as emphysema, asthma, comprises a first protease inhibitor comprising alpha 1-antitrypsin and a second protease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  and psoriasis, in inflammatory responses to viral infection, and for treating herpes infection, corneal or epidermal ulceration, chronic non-healing wounds, sepsis, rheumatoid arthritis, periodontal disease, tumour metastasis and tumour anglogenesis, gastric ulceration,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               181 CIAGAAGAAAGCCAGGTAAGTGTCCAGTTACTTACGGTCAATGTTTGATGTTGAACCCAC 240
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         This invention relates to a novel fusion protein comprising a first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
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                                                                                                           /*tag= e
/note= "AAT coding region"
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/*tag= d
/note= "linking codon"
336..1517
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20-NOV-2001; 2001US-331966P.
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1261 CCAAAGTTTTTTTTAACGGTGCCGATTTGAGTGGTGTTACTGAAGAAGCTCCATTAAAAT 1320
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                                            301 GIGGTAAGTCCTGTGTTTCCCCAGTCAAGGCCATGGAAGACCCTCAAGGCGAGGCCGCTC 360
                                                                                   AAAAAACCGACACCAGTCATCACGACCAAGACCATCCGACTTTTAATAAAATTACTCCAA 420
                                                                                                      421 ATTIAGCCGAATTIGCTITITCTITGTATAGACAATTAGCTCATCAAGTAATTGTACTA 480
241 CAAACTICTGTGAAATGGACGGTCAATGTAAGAGAGACTTGAAGTGTTGTATGGGTATGT 300
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                            301 GIGGIAAGICCIGIGITITCCCCAGICAAGGCCAIGGAAGACCCICAAGGCGACGCCGCIC
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malaria; emphysema; asthma; chronic obstructive pulmonary disease; cystic fibrosis; otitis media; otitis external; HIV; psoriasis; eczema; human immunodeficiency virus; atopic dermatitis; muscular dystrophy; herpes; ulceration; sepsis; rheumatoid arthritis; periodontal disease; tumour metastasis; osteoporosis; paget's disease; scleroderma; glomerulonephritis; hypertension.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Novel fusion protein useful for inhibiting protease activity associated with a disorder such as emphysema, asthma, comprises a first protease inhibitor comprising alpha 1-antitrypsin and a second protease inhibitor -
1381 GCGCTATGTTCCTGGAAGCTATTCCAATGAGCATTCCACCAGAAGTTAAATTTAATAAAC 1440
              1441 CATTCGTTTTTCTGATGATCGAGCAGAACACTAAAAGCCCATTGTTTATGGGTAAGGTTG
                                                                                                                                                                                                                                                                              TAP1; gene; ds; Alzheimer's disease; tumour angiogenesis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                       /standard_name= "Ribosome binding site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /*tag= b
/product= "TAP1 fusion protein"
12..563
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note= "TIMP-1 coding region"
                                                                                                                                                                                                                                                       DNA sequence encoding TAP1 fusion protein.
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'note= "linking codon"
                                                                                             1501 TCAACCCAACTCAGAAGTAGTCGAC 1525
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                                                                                                                                                                               ABK88023 standard; DNA; 1756 BP
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                                                                                                                                                                                                                                 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /*tag=
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P-PSDB; AAU99882.
                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens.
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This invention relates to a novel fusion protein comprising a first protease inhibitor comprising an alphal-antitrypsin or its functionally active portion and a second protease inhibitor or its functionally active protein. The fusion proteins of the invention may act as an inhibitor of protease activity associated with a disorder is useful for inhibiting protease activity associated with a disorder cuch as emphysema, asthma, chronic obstructive pulmonary disease, cuch as emphysema, asthma, chronic obstructive pulmonary disease, cortiss media, otitis external or HIV infection, or for treating an individual suffering from or at risk for a disease or disorder involving unwanted protease activity. The proteins are useful for treating dermatological diseases such as atopic dermatitis, eczema and soriasis, in inflammatory responses to viral infection, and for treating herpes infection, corneal or epidermal ulceration, chronic non-healing wounds, sepsis, rheumatoid arthritis, periodontal disease, tumour metastastasis and tumour anglogenesis, gastric ulceration, osteoporosis Paget's disease, glomerulonephritis, scleroderma, malaria, distriction, Alzhelmer's disease, hypertension and muscular man, forth the present sequence represents the DNA encoding the
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  860
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               330 GCCATGGAAGACCCTCAAGGCGACGCCGCTCAAAAAACCGACACCAGTCATCACGACCAA 389
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      390 GACCATCCGACTTTTAATAAAATTACTCCAAATTTAGCCGAATTTGCTTTTCTTTGTAT 449
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            750 CATAGTGAGGCTTTTACCGTTAATTTTGGTGATACTGAGGAAGCTAAAAAGCAAATTAAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             870 GATACCGTCTTCGCACTAGTTAACTATTTTTTTCAAGGGTAAGTGGGAACGTCCTTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          810 GATTATGTTGAGAAAGGCACCCAGGGTAAGATCGTTGACCTAGTTAAAGAATTAGATCGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          930 GAGGTTAAAGATACTGAAGAGGAAGATTTTCATGTTGATCAAGTTACTACTGTCAAAGTT
                                                                                                                                                                                                                                                                                                                                             dystropny. The present sequence represents the DNA encoding the TAPI fusion protein of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 1756;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 1756 BP; 493 A; 395 C; 373 G; 495 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                          78.4%; Score 1196; DB 24; 100.0%; Pred. No. 1.4e-290;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0; Mismatches
Example 1; Page 77-78; 134pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Best Local Similarity 100.0
Matches 1196; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
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malaria; emphysema; asthma; chronic obstructive pulmonary disease; cystic fibrosis; otitis media; otitis external; HIV; psoriasis; eczema; human immunodeficiency virus; atopic dermatitis; muscular dystrophy; herpes; ulceration; sepsis; rheumatoid arthritis; periodontal disease; tumour metastasis; osteoporosis; paget's disease; scleroderma; glomerulonephritis; hypertension.
                                                                                                                                                                                                                                                                                       ACTATTGATGAAAAGGGTACCGAGGCCGCCGCGCTATGTTCCTGGAAGCTATTCCAATG 1409
                                                                                                                                                                                                                                                                                                   1410 AGCATTCCACCAGAAGTTAAATTTAATAAACCATTCGTTTTTCTGATGATCGAGCAGAAC 1469
                                                                                                                                                                                                                                                                                                                                                     GICTIAITAAIGAAGIAITIAGGIAACGCIACIGCIATITITITITITACCAGACGAAGGI 1109
                                                1230 TIAAAAICTGITITAGGCCAGTIAGGIAITACCAAAGITITITTTTTACGGTGCCGAITIG 1289
                                                                                                                                                                                                     AGTGGTGTTACTGAAGAAGCTCCATTAAAATTGAGTAAAGCTGTTCACAAAGCCGTCTTA 1349
                                                                                                                                                                                                                                                     1221 CCAATGATGAAAAAACTGGGTATGTTCAATATTCAACATTGCAAAAATTAAGTTCTTGG 1280
                                                                                     1110 AAGCTTCAACATTTAGAGAATGAGTTGACTCATGACATTATTACTAAATTTTTAGAGAAC 1169
                                                                                                                                       GAGGAICGICGIAGCGCITCTCTGCACCIGCCAAAGIIAAGIAICACCGGIACIIACGAC 1229
                                                                                                                                                                                                                                                                                                                                                                                                     1701 ACTAAAAGCCCATTGTTTATGGGTAAGGTTGTCAACCCAACTCAGAAGTAGTCGAC 1756
                                                                                                                                                                                                                                                                                                                                                                                       1470 ACTAAAAGCCCATTGTTTATGGGTAAGGTTGTCAACCCCAACTCAGAAGTAGTCGAC 1525
NTAP1; gene; ds; Alzheimer's disease; tumour angiogenesis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /standard_name= "Ribosome binding site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          'product= "NTAP1 fusion protein"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       *tag= c
note= "TIMP-1 coding region"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DNA sequence encoding N-TAP1 fusion protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /*tag= e
/note= "AAT coding region"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          '*tag= d
'note= "linking codon"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ABK88024 standard; DNA; 1582 BP.
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This invention relates to a novel fusion protein comprising a first

protease inhibitor comprising an alphal-antitrypsin or its functionally
active portion and a second protease inhibitor or its functionally
active protein. The fusion proteins of the invention may act as an
inhibitor of protease activity. The fusion protein of the invention
is useful for inhibiting protease activity associated with a disorder
such as emphysema, asthma, chronic obstructive pulmonary disease,
cystic fibrosis, othis madia, othis external or HIV infection, or
for treating an individual suffering from or at risk for a disease or
for treating an individual suffering from or at risk for a disease or
clost carried in inflammatory responses to viral infection, and for
and psoriasis, in inflammatory responses to viral infection, chronic
treating hereps infection, corneal or epidermal ulceration, chronic
treating hereps infection, corneal or epidermal ulceration,
connealing wounds, sepsis, rheumatoid arthritis, periodontal disease,
tumour metastasis and tumour angiogenesis, gastric ulceration,
corneal infection, Alzheimer's disease, hypertension and muscular
bacterial infection, Alzheimer's disease, hypertension and muscular
characterial transport or the presents the DNA encoding the
                                                                                                                                                                                                                                                                                                  Novel fusion protein useful for inhibiting protease activity associated with a disorder such as emphysema, asthma, comprises a first protease inhibitor comprising alpha 1-antitrypsin and a second protease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                568 AAGGITIAAACITIAAITIGACCGAAAICCCCAGAAGCCCCAAAITCACGAGGGITITCAAG 627
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AGTIGITGAGAACTITGAATCAACCTGATTCTCAATTGCAATTAACTACTGGTAACGGTT 687
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             388 AAGACCATCCGACTTTTAATAAATTACTCCAAATTTAGCCGAATTTGCTTTTCTTTGT
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Pred. No. 2.7e-290;
0; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NTAP1 fusion protein of the invention.
                                                                                                                                                                                                                                                                                                                                                                                              Example 2; Page 85-86; 134pp; English.
                                                                                                                                                                                                                 Pemberton P;
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Matches 1196; Conservative
                                                                                    18-DEC-2001; 2001WO-US49256.
                                                                                                                       18-DEC-2000; 2000US-256699P
                                                                                                                                          20-NOV-2001; 2001US-331966P
                                                                                                                                                                               (ARRI-) ARRIVA PHARM INC.
                                                                                                                                                                                                                   Barr PJ, Gibson HL,
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                                                                                                                                                                                                                                                                           P-PSDB; AAU99883
                 WO200250287-A2
                                                   27-JUN-2002
                                                                                                                                                                                                                                                                                                                                                                     inhibitor
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rSLAP1; gene; ds, Alzheimer's disease; tumour anglogenesis; malaria; emphysema; asthma; chronic obstructive pulmonary disease; cystic fibrosis; otitis media; otitis external; HIV; psoriasis; eczema; human immunodeficiency virus; atopic dermatitis; muscular dystrophy; herpes; ulceration; sepsis; rheumatoid arthritis; periodontal disease;
                                                                                                                                                                                                                TTCCAATGATGAAAAGACTGGGTATGTTCAATATTCAACATTGCAAAAATTAAGTTCTT 1047
                                                                                                                                                                                                                                                                  GTAAGCTTCAACATTTAGAGAATGAGTTGACTCATGACATTATTACTAAATTTTTAGAGA 1167
                                                                                                                                                                                                                                                                                                                                                                                                          ACGAGGATCGTCGTAGCGCTTCTCTGCACCTGCCAAAGTTAAGTATCACCGGTACTTACG 1227
                                                                                                                                                                                                                                                                                                                                                                      1288 TGAGTGGTGTTACTGAAGAGCTCCATTAAAATTGAGTAAAGCTGTTCACAAAGCCGTCT 1347
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1405 TAACTATTGATGAAAGGGTACCGAGGCCGCCGGCGCTATGTTCCTGGAAGCTATTCCAA 1464
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1408 TGAGCATTCCACCAGAAGTTAAATTTAATAAACCATTCGTTTTTCTGATGATCGAGCAGA 1467
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1465 IGAGCATTCCACCAGAAGTTAATTAATAACCATTGTTTTTCTGATGATGAGGAGA 1524
              1468 ACACTAAAAGCCCATTGTTATGGGTAAGGTTGTCAACCCCAACTCAGAAGTAGTCGAC 1525
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1525 ACACTAAAAGCCCATTGTTATGGGTAAGGTTGTCAACCCAACTCAGAGTGGAC 1582
688 TATTTTTGCTGAAGGTTTAAAATTGGTTGACAAATTCCTAGAAGACGTCAAGAACTAT
                                                             TCGAGGTTAAAGATACTGAAGAAGAAGATTTTCATGTTGATCAAGTTACTACTGTCAAAG
                                                 ATCATAGTGAGGCTTTTACCGTTAATTTTGGTGATACTGAGGAAGCTAAAAAGCAAATTA
                                                                                                  ATGATTATGTTGAGAAAGGCACCCAGGGTAAGATCGTTGACCTAGTTAAAGAATTAGATC
                                                                                                                         ATGATTATGTTGAGAAAGGCACCCAGGGTAAGATCGTTGACCTAGTTAAAAGAATTAGATC
                                                                                                                                                   GTGATACCGTCTTCGCACTAGTTAACTATTTTTTTTCAAGGGTAAGTGGGAACGTCCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DNA sequence encoding rSLAP1 fusion protein.
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This invention relates to a novel fusion protein comprising a first protease inhibitor comprising an alphal-antitrypsin or its functionally active portion and a second protease inhibitor or its functionally active portion and a second protease inhibitor or its functionally active protein. The fusion proteins of the invention may act as an inhibitor of protease activity. The fusion protein of the invention is useful for inhibiting protease activity associated with a disorder second as emphysema, asthma, chronic obstructive pulmonary disease, over as emphysema, asthma, chronic obstructive pulmonary disease, cystic fibrosis, otitis media, otitis external or HIV infection, or for treating an individual suffering from or at risk for a disease or disorder involving unwanted protease activity. The proteins are useful for treating dermatological diseases such as atopic dermatitis, eczema and psoriasis, in inflammatory responses to viral infection, chronic non-healing wounds, sepsis, rheumatoid arthritis, periodontal disease, tumour metastasis and tumour anglogenesis, gastric ulceration, chronic non-healing wounds, sepsis, rheumatoid arthritis, scleroderma, malaria, osteoporosis, paget's disease, glomerulonephritis, scleroderma, malaria, bacterial infection, Alzheimer's disease, hypertension and muscular dystrophy. The present sequence respresents the DNA encoding the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Novel fusion protein useful for inhibiting protease activity associated with a disorder such as emphysema, asthma, comprises a first protease inhibitor comprising alpha 1-antitrypsin and a second protease
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tumour metastasis; osteoporosis; Paget's disease; scleroderma;
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                                                                                                                                                                                                                 product- "rSLAP1 fusion protein"
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/note= "AAT coding region"
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/*tag- d
/note- "linking codon"
1197..1517
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                                                                                                         Location/Qualifiers
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                   glomerulonephritis; hypertension.
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/standard_name~
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Matches 1194; Conservative
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                                                     Homo sapiens.
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                                                    1105 AAGGTAAGCTTCAACATTTAGAGAATGAGTTGACTCATGACATTATTACTAAATTTTAG
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This invention relates to a novel fusion protein comprising a first protease inhibitor comprising an alphal-antitrypsin or its functionally active portion and a second protease inhibitor or its functionally active protein. The fusion proteins of the invention may act as an inhibitor of protease activity. The fusion protein of the invention
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                                                                                                                                                                                                                                    malaria, emphysema, asthma; chronic obstructive pulmonary disease; cystic fibrosis, otitis media; otitis external; HIV; psoriasis; eczema; human immunodeficiency virus; atopic dermatitis; muscular dystrophy; herpes; ulceration; sepsis; rheumatoid arthritis; periodontal disease; tumour metastasis; osteoporosis; Paget's disease; scleroderma;
1081 CAATGAGCATTCCACCAGAAGTTAAATTTAATAAACCATTCGTTTTTTCTGATGATCGAGC 1140
                        rN-TAP1; gene; ds; Alzheimer's disease; tumour angiogenesis;
                                                                                                                                                                                                                                                                                                                                                                                                            /standard_name= "Ribosome binding site"
                                                                                                                                                                                                                                                                                                                                                                                                                                                    'product= "rTAP1 fusion protein"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /note= "TIMP-1 coding region"
                                                                                                                                                                                                      DNA sequence encoding rN-TAP1 fusion protein.
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/note= "AAT coding region"
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/note= "linking codon"
1197..1574
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                                                                                                                         ABK88027 standard; DNA; 1582
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20-NOV-2001; 2001US-331966P
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such as emphysema, asthma, forconic obstructive pulmonary disease, cystic fibrosis, otitis media, otitis external or HIV infection, or disortering an individual suffering from or at risk for a disease or disorder involving unwanted processe activity. The proteins are useful for treating dermatological disease such as atopic dermatitis, eczema and psoriasis, in inflammatory responses to viral infection, and for non-healing wounds, sepais, rhemmatory repidermal ulceration, chronic tumour metastasis and tumour angiogenesis, periodontal disease, osteoporosis, paget's disease, glomerulonephitis, scleroderma, malaria, bacterial infection, Alzheimer's disease, hypertension and muscular rN-TAPI fusion protein of the invention.
useful for inhibiting protease activity associated with a disorder
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Sequence 1582 BP; 464 A; 334 C; 329 G; 455 T; 0 other;

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                                                                       ACCAAGACCATCCGACTTTTAATAAAATTACTCCAAATTTAGCCGAATTTGCTTTTCTT 444
                                                                                                           TTGCCACTGCTTTCGCCATGTTGAGTTTAGGTACTAAAGCCGATACCCATGACGAGATTT 564
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  DB 24; Length 1582;
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78.1%; Score 1191.4; DB 2. 99.5%; Pred. No. 1.9e-289;
                   0; Mismatches
        Best Local Similarity 99.5
Matches 1195; Conservative
 Query Match
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rTAP1; gene; ds; Alzheimer's disease; tumour anglogenesis; malaria; emphysema; asthma; chronic obstructive pulmonary disease; cystic fibrosis; ottitis media; ottitis external; HIV; psoriasis; eczema; human immunodeficiency virus; atopic dermatitis; muscular dystrophy; herpes; ulceration; sepsis; rheumatoid arthritis; periodontal disease; tumour metastasis; osteoporosis; paget's disease; scleroderma;
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1105 AAGGTAAGCTTCAACATTTAGAGAATGAGTTGACTCATGACATTATTACTAAATTTTAG 1164
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                                                                                                                                                                                                                                                                                1465 AGAACACTAAAAAGCCCATTGTTTATGGGTAAGGTTGTCAACCCAACTCAGAAGTAGTCGA 1524
                                                                                                                                                                                                                                                                                              900
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            1165 AGAACGAGGATCGTCGTAGCGCTTCTCTGCACCTGCCAAAGTTAAGTATCACCGGTACTT
                                                                                           1285 ATTTGAGTGGTGTTACTGAAGAAGCTCCATTAAAATTGAGTAAAGCTGTTCACAAAGCCG
                                                                                                                                                                                                                                                /standard_name= "Ribosome binding site"
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/note= "TIMP-1 coding region"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DNA sequence encoding rTAP1 fusion protein.
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/note= "AAT coding region"
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/note= "linking codon"
1197..1748
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ABK88015 standard; DNA; 1182 BP.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    This invention relates to a novel fusion protein comprising a first
protease inhibitor comprising an alphal-antitrypsin or its functionally
active protein and a second protease inhibitor or its functionally
active protein. The fusion proteins of the invention may act as an
inhibitor of protease activity. The fusion protein of the invention
c is useful for inhibiting protease activity associated with a disorder
such as emphysema, asthma, chronic obstructive pulmonary disease,
c such as emphysema, asthma, chronic obstructive pulmonary disease,
c such as emphysema, asthma, chronic obstructive pulmonary disease,
c such as emphysema, asthma, chronic obstructive pulmonary disease,
c such as emphysema, asthma, chronic external or HIV infection, or
for treating an individual suffering from or at risk for a disease of disorder involving unwanted protease activity. The proteins are useful
c for treating dermatological diseases such as atopic dermatitis, eczema
and psoriasis, in inflammatory responses to viral infection, and for
treating herpes infection, corneal or epidermal ulceration, chronic
tunour metastasis and tumour angiogenesis, gastric ulceration,
tunour metastasis and tumour angiogenesis, gastric ulceration,
the process of the proc
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    625 AAGAGTIGITGAGAACITIGAAICAACCIGAIICICAAIIGCAAIIAACIACIGGIAACG 684
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             325 TCAAGGCCATGGAAGACCCTCAAGGCGACGCCGCTCAAAAAACCGACACCAGTCATCACG 384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              385 ACCAAGACCATCCGACTTTTAATAAATTACTCCAAATTTAGCCGAATTTGCTTTTTCTT 444
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0; Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  dystrophy. The present sequence represents the DNA encoding the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            78.1%; Score 1191.4; DB 24; Lengt: 99.5%; Pred. No. 2e-289; Live 0; Mismatches 6; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 1756 BP; 493 A; 394 C; 374 G; 495 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       rTAP1 fusion protein of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example 3; Page 92-93; 134pp; English.
                                                                                                                                                                                                                                                             Barr PJ, Gibson HL, Pemberton P;
                                                      18-DEC-2001; 2001WO-US49256
                                                                                                                .8-DEC-2000; 2000US-256699P
                                                                                                                                               20-NOV-2001; 2001US-331966P
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                                                                                                                                                                                                      (ARRI-) ARRIVA PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Local Similarity
                                                                                                                                                                                                                                                                                                                    WPI; 2002-500631/53
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27-JUN-2002.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               inhibitor
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Alpha-1-antitrypsin; AAT; human; gene; ds; protease inhibitor; malarla;
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                                                                                                                                                                                                                                                                                                                                                                                    985 AAGTICCAAIGAAAAAGACIGGGIAIGTICAAIATICAACAITGCAAAAAAATITAAGII 1044
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361 GITTATTITIGTCTGAAGGTTTAAAATTGGTTGACAAATTCCTAGAAGACGTCAAGAAAC 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1345 TCTTAACTATTGATGAAAAGGGTACCGAGGCCGCGGCGCGTATGTTCCTGGAAGCTATTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1405 CAATGAGCATTCCACCAGAAGTTAAATTTAATAAACCATTCGTTTTTCTGATGATCGAGC
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                                                                                                                                                                                                                                                           541 ATCGTGATACCGTCTTCGCACTAGTTAACTATATTTTTTTAAGGGTAAGTGGGAACGTC
                                               745 TATATCATAGTGAGGCTTTTACCGTTAATTTTGGTGATACTGAGGAAGCTAAAAAGCAAA
                                                                                                                                  805 TTAATGATTATGTTGAGAAAGGCACCCAGGGTAAGATCGTTGACCTAGTTAAAGAATTAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ONA encoding human alpha-1-antitrypsin (AAT) protein.
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This invention relates to a novel fusion protein comprising a first protease inhibitor comprising an alphal-antitrypsin or its functionally artive portion and a second protease inhibitor or its functionally active protein. The fusion protease inhibitor or its functionally is useful for inhibiting protease activity. The fusion protein of the invention is useful for inhibiting protease activity associated with a disorder contract of the invention or for treating an individual suffering from or at itsk for a disease or for treating dermatological diseases such as atopic dermatitis, eccama and psorlasis, in inflammatory response to viral infection, and for treating herpes infection, corneal or epidermal ulceration, chronic non-healing wounds, sepsis, rheumatoid arthritis, periodontal disease, tumour metastasis and tumour anglogenesis, gastric ulceration, malasis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Novel fusion protein useful for inhibiting protease activity associated with a disorder such as emphysema, asthma, comprises a first protease inhibitor comprising alpha 1-antitrypsin and a second protease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         osteoporosis, Paget's disease, glomerulonephitis, scleroderma, malaria, bacterial infection, Alzheimer's disease, hypertension and muscular dystrophy. The present sequence represents the DNA encoding the human alpha-1-antitypsin (AAT) protein used to create the fusion protein
herpes; ulceration; sepsis; rheumatoid arthritis; periodontal disease; tumour metastasis; tumour angiogenesis; osteoporosis; Paget's disease; glomerulonephritis; scleroderma; Alzheimer's disease; hypertension.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            77.5%; Score 1182; DB 24; Length 1182; 100.0%; Pred. No. 4e-287; Live 0; Mismatches 0; Indels 0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                           /note= "No start or stop codon shown"
                                                                                                                                                                                                                                                 Location/Qualifiers
1..1182
/*tag- a
/product- "Alpha-1-antitrypsin"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Disclosure; Page 24-25; 134pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pemberton P;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   18-DEC-2001; 2001WO-US49256.
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                                                                                                                                                                   Homo sapiens.
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996 ATGAAAAGACTGGGTATGTTCAATATTCAACATTGCAAAAAATTAAGTTCTTGGGTCTTA 1055
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121 TTAGCTCATCAAAGTAATTCTACTAACATTTTTTTTAGTCCTGTTTCTATTGCCACTGCT 180
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                                                                        576 AACTTTAATTTGACCGAAATCCCAGAAGCCCCAAATTCACGAGGGTTTTCAAGAGTTGTTG
                                                                                                                                                                          TCTGAAGGTTTAAAATTGGTTGACAAATTCCTAGAAGACGTCAAGAAACTATATCATAGT
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RESULT 8 AAV41730

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456 TTAGCTCATCAAAGTAATTCTACTAACATTTTTTTTAGTCCTGTTTCTATTGCCACTGCT

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336 GAAGACCCTCAAGGCGACGCCGCTCAAAAAACCGACACCAGTCATCACGACCAAGACCAT 395

Best Local Similarity 100. Matches 1182; Conservative

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Local Similarity

1 GAAGACCCTCAAGGCGACGCCGCTCAAAAAACCGACACCAGGTCATCACGACCAAGGCCAT 60

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The present sequence encodes a fusion protein of codon-optimised RAmy3D signal sequence/mature alphal-antitrypsin (AAT). The protein is used to exemplify the invention. The specification describes a method for producting mature heterologous protein in monocotyledonous plant cells. The method comprises transforming the cells with a chimeric gene comprising a monocotyledon transcription regulator, inducible either during seed maturation or by adding/removing a small molecule, DNA encoding the heterologous protein, and DNA encoding a signal peptide, with the signal peptide causing secretion of the protein from the cell. Proteins expressed in this manner include mature glycosylated alpha antitrypsin (AAT) with a glycosylation pattern that significantly increases its serum half-life, mature glycosylated antithrombin III (ATII), mature human serum albumin (HSA) having the native folding pattern as shown by bilitubin-binding characteristics, or mature active subtilish BNN'. These proteins an euseful therapeutically (e.g. AAT for treating emplysema, ATIII as antithrombotic and HSA as blood replacement)
                                                                                                                                                                                                                                                                                                    glycosylated alpha 1-antitrypsin; AAT; glycosylated antithrombin III; ATIII; human serum albumin; HSA; subtilisin BPN'; treatment; emphysema; antithrombotic; blood replacement; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Expressing mature, glycosylated proteins in monocotyledonous plant cells - from chimeric gene including signal peptide sequence, specifically therapeutic agents and industrial enzymes
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /*tag= a
/note= "codon-optimised RAmy3D signal sequence"
                                                                                                                                                                                                   Codon-optimised RAmy3D signal fused to DNA encoding mature AAT.
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Local Similarity 70.8%; Pred. No. 3.2e-148;
Les 837; Conservative 0; Mismatches 346; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 1260 BP; 287 A; 428 C; 350 G; 195 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    or as industrial enzymes (BPN' is used in detergents).
                                                                                                                                                                                                                                                                                  Protein expression; monocotyledon plant cell;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /*tag= b
/note= "encodes mature AAT",
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Location/Qualifiers
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AAV41730 standard; DNA; 1260 BP
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97US-0037991.
97US-0038168.
97US-0038169.
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13-FEB-1997
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1296 GITACIGAAGAAGCICCAITAAAAIIGAGIAAAGCIGIICACAAAGCCGICITAACTAII 1355
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                                                                                                                       TTCGCCATGTTGAGTTTAGGTACTAAAGCCGATACCCATGACGAGATTTTAGAAGGTTTA 575
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              676 AAGGACACCGAGGAGGACTTCCACGTCGACCAGGTCACCACGTCAAGGTCCCGATG
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                                                                                           CICGCGCACCAGICCAACTCCAACAICTICTICAGCCCGGIGAGCAICGCCACGCC
                                                                                                                                                      256 Trescenterretreseraceaageseacaceacaceagaarcersaagesers
                                                                                                                                                                                    576 AACITIAAITIGACCGAAAITCCCAGAAGCCCCAAAITCACGAGGGITTTCAAGAGITGITG
                                                                                                                                                                                                                                               AGAACTTTGAATCAACCTGATTCTCAATTGCAATTAACTACTGGTAACGGTTTATTTTG
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336 GAAGACCCTCAAGGCGACGCCGCTCAAAAACCGACACCAGTCATCACGACCAAGACCAT 395

Query Match

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The sequence of a human alpha-1-antitrypsin cDNA clone is given in AAQ89254. Expression of the cDNA in host cell transformants has
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAQ89254. Expression of the cDNA in host cell transformants has allowed production of recombinant alpha-1-antitrypsin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human alphal-antitrypsin (al-AT) cDNA sequence - can be used for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match 28.6%; Score 436.4; DB 16; Length 1312; Best Local Similarity 59.8%; Pred. No. 1.1e-99; Matches 731; Conservative 0; Mismatches 491; Indels 0;
Sequence 1312 BP; 339 A; 368 C; 324 G; 281 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WOO SLC
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                                                                                                                                                                   Alpha-1-trypsin; protease-inhibitor; ss.
                                                                                                                                                                                                              Location/Qualifiers
28..1258
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 1; Fig.1; 15pp; English.
                                                                            AAQ89254 standard; cDNA; 1312
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870S-0022543.
870S-0133190.
880S-0246912.
990S-0398288.
910S-066450.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                           93US-0086442
                                                                                                                                              duman alpha-1-trypsin cDNA
                                                                                                                        18-OCT-1995 (first entry)
                                                                                                                                                                                                                                   /*tag= a
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100..1255
/*tag= c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      the expression of al-AT
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                                                                                                                                                                                        Homo sapiens
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03-MAR-1987;
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1378 CCGGCGCTATGTTCCTGGAAGCTATTCCAATGAGCATTCCACCAGAAGTTAAATA 1437
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               658 CICAATTGCAATTAACTACTGGTAACGGTTTATTTTTGTCTGAAGGTTTAAAATTGGTTG 717
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CAAATTTAGCCGAATTTGCTTTTCTTTGTATAGACAATTAGCTCATCAAAGTAATTCTA 477
                                                                CTAACATTTTTTTTAGTCCTGTTTCTATTGCCACTGCTTTCGCCATGTTGAGTTTAGGTA 537
                                                                                                                                CTAAAGCCGATACCCATGACGAGTTTTAGAAGGTTTAAAACTTTAATTTGACCGAAATCC 597
                                                                                                                                                             302 CCAAGGCTGACACCTCACGATGAAATCCTGGAGGCCTGAATTTCAACCTCACGGAGATTC 361
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                                                                                                                                                                                                                                                                                            422 GCCAGCTCCAGCTGACCACCGGCAATGGCCTGTTCCTCAGCGAGGGCCTGAAGCTAGTGG 481
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1318 AATTGAGTAAAAGCTGTTCACAAAGCCGTCTTAACTATTGATGAAAAGGGTACCGAGGCCG 1377
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                                                                                                                                                                                                                      CTAAAGCCGATACCCATGACGAGATTTTAGAAGGTTTAAAACTTTAATTTGACCGAAATCC 597
                                                                                                                                                                                                                                                        598 CAGAAGCCCAAATTCACGAGGGTTTTCAAGAGTTGTTGAGAACTTTGAATCAACCTGATT 657
                                                                                                                                                                                                                                                                                                                                                                     658 CICAATIGCAATIAACTACTGGTAACGGTTTATITITTGTCTGAAGGTTTAAAATIGGITG 717
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ACAAATTCCTAGAAGACGTCAAGAAACTATATCATAGTGAGGCTTTTACCGTTAATTTTG 777
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                                                                                                                                              782 ACAICCAGCAITGIAAGAAGCIGICCAGCIGGGIGCIGCIGAIGAAAIACCIGGGCAAIG
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                                                      182 CCAACTTGGCTGAGTTCGCCTTCAGCCTATACCGCCAGCTGGCACACCCAGTCCAACAGCA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             alpha-1-antitrypsin (ATR-1) protein. Its products are useful for producing recombinant ATR-1 polypeptides, which can be used to prepare antibodies for detecting ATR-1 variants in the blood, as ligands in assays for ATR-1, and to treat ATR-1 deficiency.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         62 rescassecrerecrecresrecresrerereres and a second second
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DNA encoding alpha-1 anti-trypsin - useful for, e.g. producing recombinant alpha-1 anti-trypsin
                                                                                                                                                                                                                                                                                                                                                                                                                                 Human alpha-1-antitrypsin; ATR-1; antibody; ATR-1 deficiency;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         This is the nucleotide sequence encoding the novel human
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /*tag= a
/product= "alpha-1-antitrypsin"
                                                                                                                                                                                                                                                                                                                                                                                   Nucleotide sequence of the alpha-1-antitrypsin
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Location/Qualifiers
                      1498 TIGICAACCCAACTCAGAAGIA 1519
                                                Claim 1; Fig 1; 15pp; English.
                                                                                                                                                                                                                   AAV28471 standard; cDNA; 1312
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91US-0666450.
92US-0979556.
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84US-0638980.
87US-0022543.
87US-0133190.
88US-0246912.
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94US-0361689
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/*tag= 8
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02-JUL-1993;
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07-FEB-1984;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         This sequence represents the human alphal-antitrypsin nucleotide sequence. Alphal-antitrypsin is an important protease inhibitor, the major function of which is to inhibit neutrophil elastase. Low levels of alphal-antitrypsin in the blood are associated with chronic obstructive pulmonary emphysema and infantile liver cirrhosis. A vector comprising a mammalian alphal-antitrypsin DNA sequence that hybridises to human alphal-antitrypsin cDNA can be introduced into a host cell in a method for the production of alphal-antitrypsin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          298 TGTGTGGTAAGTCCTGTGTTTCCCCAGTCAAGGCCATGGAAGACCCTCAAGGCGACGCCG 357
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       358 CICAAAAACGGACACCAGTCATCACGACCAAGACCATCCGACTTTTAATAAAATTACTC 417
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                Alphal-antitrypsin; neutrophil elastase inhibitor; human; ss; chronic obstructive pulmonary emphysema; infantile liver cirrhosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Preparing alphal antitrypsin for inhibiting neutrophil elastase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                involves transfecting hist cell with vector comprising alphal-antitrypsin DNA sequence that hybridizes to human alphal-antitrypsin cDNA, or its complement
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 1312 BP; 339 A; 368 C; 324 G; 281 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                   Davie EW;
                                                                                                                              Human alphal-antitrypsin nucleotide sequence.
                                                                                                                                                                                                                                                                                                                                                                                                              Woo SLC, Thirumalachary C, Kurachi K,
AAZ90199 standard; cDNA; 1312
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88US-0246912.
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84US-0638980.
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92US-0979556.
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                                                                                                          (first entry)
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                                                                                                         19-MAY-2000
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16-SEP-1988
                                                                                                                                                                                                                                                                                           07-FEB-1984
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958 ITCATGTTGATCAAGTTACTACTGTCAAAGTTCCAATGATAAAAAAAGACTGGGTATGTTCA 1017
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1078 CTACTGCTATTTTTTTTTACCAGACGAAGGTAAGCTTCAACATTTAGAGAATGAGTTGA 1137
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                                    1198 TGCCAAAGTTAAGTATCACCGGTACTTACGACTTAAAATCTGTTTTAGGCCAGTTAGGTA 1257
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                                                                                                                                                          538 CTAAAGCCGATACCCATGACGAGATTTTAGAAGGTTTAAACTTTAATTTGACCGAAATCC 597
                                                                                                                                                                                                                                                                                                        302 ccaaggcrgacacrcacgargaaarccrgagggccrgaarrrcaaccrcacggagarrc 361
                                                                                                                                                                                                                                                                                                                                                                      598 CAGAAGCCCAAATTCACGAGGGTTTTCAAGAGTTGTTGAGAACTTTGAATCAACCTGATT 657
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                                                                                                                      CTAACATTTTTTTAGTCCTGTTTCTATTGCCACTGCTTTCGCCATGTTTAGGTA
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1262 TGGTGAATCCCACCCAAAATA 1283
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cDNA encoding novel human secretory protein, Seq ID No 133. AAS45052 standard; cDNA; 1367 18-DEC-2001 (first entry) AAS45052; RESULT 12 AAS45052

ischaemia-reperfusion injury, haematopoiesis; cancer; neuropathy; transgenic animal; Alzheimer's disease; Parkinson's disease; burn; amyotrophic lateral sclerosis; platelet disorder; thrombocytopenia; ulcer; osteoporosis; bone degenerative disorder; periodontal disease; gut protection; lung; liver fibrosis; immune deficiency; infection; severe combined immunodeficiency; SCID; autoimmune disorder; allergy; multiple sclerosis; rheumatoid arthritis; diabetes mellitus; asthma; fertility; analgesic; pain; antigen; ss. Human; secreted protein; arthritis; Crohn's disease; sepsis; shock;

Homo sapiens.

WO200166689-A2

13-SEP-2001

05-MAR-2001; 2001WO-US04942.

19-MAY-2000; 2000US-0574454. 17-JUN-2000; 2000US-0595193. 14-JUL-2000; 2000US-0616847. 19-SEP-2000; 2000US-0665363. 20-OCT-2000; 2000US-0669367. 07-MAR-2000; 2000US-0519705

(HYSE-) HYSEQ INC.

Asundi V, Xu C, Wehrman T, Ren F, Ma Y, Zhou P; Drmanac RT, Zhang J, Chen R, Xue AJ, Wang J; Yang Y, Liu C, Tang YT, Zhao QA,

WPI; 2001-589934/66. P-PSDB; AAU28152.

prepared from various human tissues, for diagnosis and treatment of cancer, neurological, inflammatory, and autoimmune disorders -Novel polypeptides and nucleic acids obtained from cDNA libraries prepared from various human tissmes. for Alexander

Claim 1; SEQ ID No 133; 107pp; English.

The invention relates to novel isolated human secreted polypeptides (I)
and polynucleotides (II). (I) and (II) are useful for treating
and polynucleotides (II). (I) and (II) are useful for treating
inflammatory conditions such as arthritis, mephritis. Crohn's disease,
ischaemia-reperfusion injury, shock, sepsis, immune responses, and is
involved in increasing haematopolesis, stem cell survival, bone growth
and remodeling. (I), (II) and modulators of (II) are useful for
prophylaxis or treatment of one or more cancers. (II) is also useful for
creating transgenic animals useful for studying the in vivo activities of
the polypeptide as well as for studying modulators of the polypeptides.
(I) induces the proliferation of neural cells and regeneration of nerve
and brain tissue and is useful for the treatment of central and
peripheral nervous system diseases and neuropathies, such as Alzheimer's,
peripheral nervous system diseases and neuropathies, such as Alzheimer's,
peripheral neiton of haematopolesis and is useful for treating myeloid
activity, requiation of haematopolesis and is useful for treating myeloid
or lymphoid cell disorders, platelet disorders such as thrombocytopenia and for regeneration of bone, cartilage, tendon, ligament and/or nerve tissue growth, and in tissue repair, healing of burns, incisions, ulcers, for treating osteoporosis, osteoarthritis, bone degenerative disorders, or periodontal disease. Furthermore, (I) is also useful for

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gut protection or regeneration and treatment of lung or liver fibrosis, reperfusion injury in various tissues, various immune deficiencies and disorders including severe combined immunodeficiency (SCID), bacterial or fungal infections, autoimmune disorders e.g. multiple sclerosis, rheumatoid arthritis, diabetes mellitus, myasthenia gravis, allergic reactions and conditions, such as asthma or other respiratory problems. In addition, (I) affects biorhythms or circadian cycles of rhythms, in addition, (I) affects biorhythms or circadian cycles of rhythms, in addition, catabolism, anabolism, storage or elimination of dietary fat, lipid, protein, carbohydrate, vitamins, minerals, provides analysic effects or other pain reducing effects, immunoglobulin like activity and can act as an antigen in a vaccine composition to raise an immune response. AAS44920-AAS45295 represent novel human secreted protein coding sequences of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1017 AATATICAACATIGCAAAAATIAAGIICTIGGGICTIAITAAIGAAGIAITIAGGIAAC 1076
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                                                                                                                                                                                                                                                                                                                                                                                           DB 22; Length 1367;
                                                                                                                                                                                                                                                                                                                                                                                        28 4%; Score 4.30.%; 60.2%; Pred. No. 6.1e-99; rive 0; Mismatches 486; Indels
                                                                                                                                                                                                                                                                                                                                        Sequence 1367 BP; 357 A; 392 C; 323 G; 295 T; 0 other;
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                                                                                                                                                                                                                                                                                                                                                                                                                           Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
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1197 CTGCCAAAGTTAAGTATCACCGGTACTTACGACTTAAAATCTGTTTTAGGCCAGTTAGGT 1256
                                                                                                                 ATTACCAAAGTTTTTCTAACGGTGCCGATTTGAGTGGTGTTACTGAAGAAGCTCCATTA 1316
                                                                                                                                                                           ATCACTAAGGTCTTCAGCAATGGGGCTGACCTCTCCGGGGTCACAGAGGAGGCACCCTG 1086
                                                                                                                                                                                                                                      AAGCTCTCCAAGGCCGTGCATAAGGCTGTGCTCATCGACGAGAAGGGGGACTGAAGCT 1146
                                          ACTCATGACATTATTACTAAATTTTTAGAGAACGAGGATCGTCGTAGCGCTTCTCTGCAC 1196
                                                                                                                                                                                                                                                                  GCCGGCGCTATGTTCCTGGAAGCTATTCCAATGAGCATTCCACCAGAAGTTAAATTTAAT 1436
                                                                                                                                                                                                                                                                                    AAACCATTCGTTTTTCTGATGATCGAGCAGAACACTAAAAGCCCCATTGTTATGGGTAAG 1496
                                                                                                                                                                                                                                                                                                                                            A plasmid consisting of a pCMV4 expression vector including a coding sequence of human alpha-1 antitrypsin may be incorporated into liposomes capable of targeting specific tissue. The plasmid is then capable of expression of the gene extrachromosomally in the cells of the target tissue and is unincorporable into the chromosome of the cells of the target tissue. Thus, the liposome including the plasmid can be used in a method for treating a deficiency of the
                                                                   907 ACCCACGATATCATCACCAAGTTCCTGGAAAATGAAGACAGAAGGTCTGCCAGCTTACAT
                                                                                                                                                                                                             AAATTGAGTAAAGCTGTTCACAAAGCCGTCTTAACTATTGATGAAAAGGGTACCGAGGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human alpha-1 anti-trypsin contg. plasmid - for treatment of anti-protease deficiency in emphysema and other lung diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Plasmid; pCMV4; liposome; antiprotease; lung; emphysema;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                adult respiratory distress syndrome; ARDS; ss
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human alpha-1 antitrypsin.
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gene product in cells of the target tissue. The specific use of the human alpha-1 antitrypsin is significant as this antiprotease is important in protecting the lungs against emphysema. The adult respiratory distress syndrome (ARDS) is thought to involve a relative deficiency of antiprotease activity. Therefore, the delivery of a functioning alpha-1 antiprotease characterised by injury of the lungs.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ATATICAACATIGCAAAAATTAAGTICTIGGGTCTTATTAATGAAGTATTTAGGTAACG 1077
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1078 CTACTGCTATTTTTTTTTTTACCAGACGAAGGTAAGCTTCAACATTTAGAGAATGAGTTGA 1137
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TICATGITGATCAAGITACTACTGICAAAGITCCAATGATGAAAAGACTGGGTATGITCA 1017
                                                                                                                                                                                                                                                                                                                                                      358 CICAAAAAAACCGACACCAGICAICACGACCAAGACCAICCGACIIIIAAIAAAAIIACIC 417
                                                                                                                                                                                                                                                                                                                                                                                         114 CCCAGAAGACAGATACATCCCACCATGATCAGGATCACCCAACCTTCAACAAGATCACC 173
                                                                                                                                                                                                                                                                                                                                                                                                                                CAAATTTAGCCGAATTTGCTTTTCTTTGTATAGACAATTAGCTCATCAAAGTAATTCTA 477
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CTAACATTTTTTTAGTCCTGTTTCTATTGCCACTGCTTTCGCCATGTTGAGTA 537
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   657
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                                                                                                                                                                                                                                                                                                                  54 TGGCAGGCCTGTGCTGCTGGTCCTGTCTCCTGGCTGAGGATCCCCAGGGAGATGCTG 113
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          717
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             234 CCAATATCTTCTCCCCAGTGAGCATCGCTACAGCCTTTGCAATGCTCTCCCTGGGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         174 CCAACCTGGCTGAGTTCGCCTTCAGCCTATACCGCCAGCTGGCACACCAGTCCAACAGCA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                534 GGGACACCGAAGAGGCCAAGAACAGATCAACGATTACGTGGAGAAGGGTACTCAAGGGA
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                                                                                                                                                                                                        28.4%; Score 433.2; DB 13; Length 1352; 59.7%; Pred. No. 6.8e-99;
                                                                                                                                                                                                                                          0; Mismatches 493; Indels
                                                                                                                                                                   Sequence 1352 BP; 349 A; 386 C; 325 G; 292 T; 0 other;
                                                                                                                                                                                                                                          729; Conservative
                                                                                                                                                                                                                         Local Similarity
                                                                                                                                                                                                          Query Match
                                                                                                                                                                                                                                            Matches
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Human; cancer; colon; breast; ovary; oesophagus; kidney; thyroid;
stomach; lung; prostate; pancreas; carcinoma; antitumour; cancerous;
cytostatic; gene therapy; antineoplastic; Wilm's tumour; adenocarcinoma;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AACCATTCGTTTTTCTGATGATCGAGCAGAACACTAAAAGCCCCATTGTTTATGGGTAAGG 1497
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CCGGCGCTATGTTCCTGGAAGCTATTCCAATGAGCATTCCACAGAAGTTAAATTTAATA 1437
                                                                                     1198 IGCCAAAGITAAGTATCACCGGIACTIAACGACTIAAAAICTGTTTTAGGCCAGTIAGGIA 1257
                                                                                                                                                         954 TACCCAAACTGTCCATTACTGGAACTATGATCTGAAGAGGGTCCTGGGTCAACTGGGCA 1013
894 CCCACGATATCATCACCAAGTTCCTGGAAAATGAAGACAGAAGGTCTGCCAGCTTACATT 953
                                                                                                                                                                                                                                                  1258 TTACCAAAGTTTTTTCTAACGGTGCCGATTTGAGTGGTGTTACTGAAGAAGCTCCATTAA
                                                                                                                                                                                                                                                                                                                                                                                                                AATTGAGTAAAGCTGTTCACAAAGCCGTCTTAACTATTGATGAAAAGGGTACCGAGGCCG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TIGICAACCCAACTCAGAAGIA 1519
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ABL67511 standard; DNA; 1352 BP
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2000US-236028P.
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2000US-233133P.
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2000US-234923P.
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2000US-235280P.
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20-SEP-2000;
20-SEP-2000;
20-SEP-2000;
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26-SEP-2000;
26-SEP-2000;
27-SEP-2000;
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28-SEP-2000;
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18-SEP-2000;
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The present invention describes a method (MI) for screening for an anti-neoplastic agent. The method involves exposing cells to a chemical activity determining a change in expression of at least one gene (I) of a signature gene set, where (I) comprises a sequence (S) selected from 8447 sequences (given in ABL61664 comprises a sequence (S) selected from 8447 sequences (given in ABL61664 comprises in indicative of anti-neoplastic activity. (I) has cytostatic expression is indicative of anti-neoplastic activity, and can be used for producing a product which is the data collected with respect to the anti-neoplastic agent as a cesult of MI, and the data is sufficient to convey the chemical crevity and cancer such as colon, breast, stomach, lung, thyroid, creatment of cancer such as colon, breast, stomach, lung, thyroid, adenocarcinoma, carcinoma, clear cell cancer, infiltrating ductal cancer, infiltrating ductal cancer, infiltrating lobular cancer, squamous cell carcinoma, neuroendocrine carcinoma, papillary carcinoma and Wilm's tumour.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        54 TGGCAGGCCTGTGCTGCTCGTGTCTCCCTGGGTGAGGATCCCCAGGGAGATGCTG 113
                                                                                                                                                                                                                                                                                                                                      ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                  Screening for anti-neoplastic agent involves exposing cells to a chemical agent to be tested for anti-neoplastic activity, and determining a change in expression of a gene of a signature gene set
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                                                                                                                                                                                                                                                                                                                                        Carter KC, Ebner R, Endress G, Horrigan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 24; Length 1352;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 1352 BP; 349 A; 386 C; 325 G; 292 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 1; SEQ ID 5848; 44pp; English.
                                       2000US-236111P.
2000US-236842P.
2000US-236891P.
2000US-237172P.
2000US-237173P.
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2000US-237425P.
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2000US-237608P.
2000US-244867P.
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                                                                                                                                                                                                                                                                                                             (AVAL-) AVALON PHARM.
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02-OCT-2000;
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02-OCT-2000;
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538 CTAAAGCCGATACCCATGACGAGATTTTAGAAGGTTTAAACTTTAATTTGACCGAAATCC 597
                     598 CAGAAGCCCAAATTCACGAGGGTTTTCAAGAGTTGTTGAGAACTTTGAATCAACCTGATT 657
                                                                              ATAAGTITTTGGAGGATGTTAAAAAGTTGTACCACTCAGAAGCCTTCACTGTCAACTTCG 533
                                                                                                                                                                                                                                                                     654 TCTTCTTTAAAGGCAAATGGGAGAGACCCTTTGAAGTCAAGGACACGGAGGAAGAGGACT 713
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                                                                                                                           558 CTCAATTGCAATTAACTACTGGTAACGGTTTATTTTTGTCTGAAGGTTTAAAATTGGTTG
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CC (GCA), by detecting the level of expression of game (GC) activation to the invention relates to detecting the level of expression of game (GC) activation to the analysis as given in the specification, and comparing the expression level to an expression level in an unactivated GC, where differential expression of GS is indicative of GCA.

Also included are moditating (M2) GA by contacting GC with an agent that alters the expression of at least one gene in GS; (2) screening (M3) controlled are moditating GCA or an inflammation (especially chronic) in a tissue, an altergic response in a subject, exposure of a subject to a pathogen or sterile inflammatory disease, by detecting the gene expression profile; (3) detecting (M4) an inflammation (especially chronic) in a tissue, an altergic response in a subject, exposure of subject to a pathogen or sterile inflammatory disease, by detecting the clavel of expression of the gene is indicative of inflammation; where the level of expression of the gene is indicative of inflammation; or sterile inflammatory disease, by contacting a tissue having an altergic response in a subject, exposure of a subject to a pathogen or sterile inflammatory disease, by contacting a tissue having inflammation with an agent that modulates the expression of gene(s) from GC from GS in the tissue. M1 is useful for detecting GCA; M2 is useful for screening an agent capable of modulating GC detecting an inflammation in a tissue; M4 is useful for response in a subject, exposure of a subject to a pathogen or sterile inflammatory disease, commodulates the approach of subject or parthogen or sterile inflammatory disease, also bacterial infection, viral infection and M5 is reperformed inforting one of the above conditions. The present condition in the part of the present condition in the private of the pre
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to detecting (MI) granulocyte (GC) activation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 1; SEQ ID No 1066; 114pp; English.
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of the printed specification, but was obtained in electronic format directly from WIPO at

ABK84495 standard; cDNA; 1371 BP.

RESULT 15
ABK84495
ID ABK84

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Detecting granulocyte activation by detecting differential expression
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      of genes associated with granulocyte activation, which serves as diagnostic markers that is useful for monitoring disease states and
                                                                                                                                                                                                                                                         viral infection; parasitic infection; protozoal infection; fungal infection; sterile inflammatory disease; psoriasis; rheumatoid arthritis; glomerulonephritis; asthma; thrombosis; cardiac reperfusion injury; renal reperfusion injury; ARDS; adult respiratory distress syndrome; inflammatory bowel disease; Crohn's disease; ulcerative colitis; periodontal disease; granulocyte activation; chronic inflammation; allergy.
                                                                                                                                              Human cDNA differentially expressed in granulocytic cells #1066
                                                                                                                                                                                                                             Human; ss; granulocytic cell; DNA chip; bacterial infection;
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                                                                           14-AUG-2002 (first entry)
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                                                                  Ouery Match 28.4%; Score 433.2; DB 24; Length 1371; Best Local Similarity 59.7%; Pred. No. 6.8e-99; Matches 729; Conservative 0; Mismatches 493; Indels 0;
                                  Sequence 1371 BP; 350 A; 388 C; 340 G; 293 T; 0 other;
ftp.wipo.int/pub/published_pct_sequences.
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